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ABSTRACT

This yearbook consists of five sections, with samples of children's work appearing between sections. Part 1, "Perspective on Change in Elementary School Mathematics," describes and discusses broad components of change in elementary school mathematics. The central roles of problem solving, communication, and reasoning are highlighted, as is the need for revising our thinking about computation. Part 2, "Children's Reasoning and Strategies: Implications for Teaching," addresses knowledge about children's thinking and reasoning, how they construct ideas, and the importance of incorporating their mathematical understandings into instruction. Part 3, "New Directions in Teaching the Content of the Curriculum," reflects the ideas presented in the previous two sections and offers practical guidance for teachers and curriculum developers. Part 4, "In the Classroom," captures the spirit of mathematical exploration and the active involvement of students through descriptions of classroom investigations. The yearbook concludes with part 5, "Perspectives and New Directions in Teaching and Learning," which focuses on important factors that influence the way mathematics is taught and learned and that must be considered in implementing change. (YP)

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